Acta Neuropathologica

Volume 59 · 1983

Organ of the Research Group for Neuropathology, of the Research Group for Comparative Neuropathology, and of the Research Group for Neurooncology of the World Federation of Neurology

Editorial Board:

W. Blackwood, Sevenoaks/Kent

L. van Bogaert, Wilrijk

R. Escourolle, Paris

K. Jellinger, Wien

I. Klatzo, Bethesda

W. Krücke, Frankfurt a. M.

G. Peters, München

L. J. Rubinstein, Charlottesville

F. Seitelberger, Wien

H. Shiraki, Tokyo

K. J. Zülch, Köln-Merheim

Managing Editors:

K. Jellinger, Wien

F. Seitelberger, Wien

Advisory Board:

H. Bernheimer, Wien

K. H. Blinzinger, München

A. N. Davison, London

R. Fankhauser, Bern

R. Friede, Göttingen

N. Grčević, Zagreb

H. Hager, Giessen

R. Hassler, Frankfurt a. M.

H. Jatzkewitz, München

St. Környey, Budapest

W. G. P. Mair, London

J. J. Martin, Wilrijk

W. Müller, Köln-Lindenthal

E. P. Richardson, Jr., Boston

P. Sourander, Göteborg

P. K. Thomas, London

H. Webster, Bethesda

E. Wildi, Genève

H. M. Wisniewski, New York

Springer International

Acta Neuropathologica was founded in 1961. Editorial Board: **I. Bertrand,** Paris, **W. Blackwood,** Sevenoaks/Kent, **L. van Bogaert,** Wilrijk, **E. Frauchiger,** Bern, **W. Haymaker,** Moffet Field, **W. Krücke,** Frankfurt/Main, **F. Lüthy,** Zürich, **W. Scholz,** München, **F. Seitelberger,** Wien. Managing Editor: **F. Seitelberger.** Berlin Göttingen Heidelberg: Springer-Verlag, Wien: Springer-Verlag.

It is a fundamental condition that submitted manuscripts have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform or any other reproductions of similar nature, and translations.

Photographic reproduction, microform, or any other reproduction of text, figures, or tables from this journal is prohibited without permission obtained from the publisher.

The use of general descriptive names, trade names, trade marks, etc., in this publication, even if the former are not specifically identified, is not to be interpreted as exempt from the relevant protective laws and regulations and may accordingly be used freely by anyone.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors nor the editors nor the publisher can accept any legal responsibility for errors or omissions that may have been made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Photocopies may be made for personal or internal use beyond that permitted by Section 107 or 108 of the U.S. Copyright Law, provided a fee is paid. This fee is $0.20 per page or a minimum of $1.00 if an article consists of less than five pages. Please pay this fee to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0001-6322, volume, and first and last page numbers of each article copied.

The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying.

Authors of this journal can benefit from library and photocopy fees collected by VG WORT if certain conditions are met. If an author lives in the Federal Republic of Germany or in West Berlin it is recommended that he contact Verwertungsgesellschaft WORT, Abteilung Wissenschaft, Goethestraße 49, D-8000 München 2, for detailed information.

Springer-Verlag, Berlin Heidelberg New York Tokyo

Springer-Verlag, Wien New York

Printed in Germany – ©Springer-Verlag GmbH & Co KG, Berlin Heidelberg 1983

Printers: Wiesbadener Graphische Betriebe GmbH, D-6200 Wiesbaden

Contents

Abe, K., see Nishio, S., et al. 1
Abe, Y., see Samano, T., et al. 41
Aikawa, H., Suzuki, K., Iwasaki, Y.: Ultrastructural Observation on the Thalamic Neuronal Inclusions in Young Mice. 316
Allen, I. V., Kirk, J., Maynard, R. L., Cooper, G. K., Scott, R., Crockard, A.: An Ultrastructural Study of Experimental High Velocity Penetrating Head Injury 277
Amano, S., Kreutzberg, G. W., Reddington, M.: 5'-Nucleotidase Activity in Human Astrocytomas 145
Antel, J. P., see Stefansson, K., et al. 255
Apostolakis, M., see Baloyannis, S. J., et al. 171
Arnason, B. G. W., see Stefansson, K., et al. 255
Ashmore, C. R., see Summers, P. J. 207
Atillo, A., Söderfeldt, B., Kalimo, H., Olsson, Y., Siesjö, B. K.: Pathogenesis of Brain Lesions Caused by Experimental Epilepsy. Light- and Electron-microscopic Changes in the Rat Hippocampus Following Bicuculline-induced Status Epilepticus 11
Aymami, A., see Ferrer, I., et al. 167

Baloyannis, S. J., Karakatsanis, K., Karathanasis, J., Apostolakis, M., Diacoyannis, A.: Effects of GABA, Glycine, and Sodium Barbiturate on Dendritic Growth in vitro . . 171
Becker, L., see Tsao, M.-S., et al. 75
Bernheimer, H., Budka, H., Müller, P.: Brain Tissue Immunoglobulins in Adrenoleukodystrophy: A Comparison with Multiple Sclerosis and Systemic Lupus Erythematosus . . 95
Berria, I., see Lascano, E. F. 183
Bichsel, P., see Vandevelde, M., et al. 269
Bonato, L., see MacPherson, C. F. C. 191
Budka, H., see Bernheimer, H., et al. 95

Cavanagh, J. B., see Simonati, A., et al. 216
Cerruti-Sola, S., see Vandevelde, M., et al. 269
Cervós-Navarro, J., see Kroh, H. 309
Cheldi, A., see Pellegrini, G., et al. 70
Chejfec, G., see Stefansson, K., et al. 255
Chronwall, B. M., McKeever, P. E., Kornblith, P. L.: Glial and Nonglial Neoplasms Evaluated on Frozen Section by Double Immunofluorescence for Fibronectin and Glial Fibrillary Acidic Protein 283
Cooper, G. K., see Allen, I. V., et al. 277
Cragg, B., see Rees, S. 31
Craggs, R. I., see King, R. H. M., et al. 262
Crockard, A., see Allen, I. V., et al. 277

Diacoyannis, A., see Baloyannis, S. J., et al. 171
Di Lorenzo, N., see Lauro, G. M., et al. 127
Dowson, J. H.: Autofluorescence Emission Spectra of Neuronal Lipopigment in a Case of Adult-onset Ceroidosis (Kufs' Disease) 241

Fenner, W. R., see Higgins, R. J., et al. 288
Ferrer, I., Aymami, A., Rovira, A., Grau Veciana, J. M.: Growth of Abnormal Neurites in Atypical Alzheimer's Disease. A Study with the Golgi Method 167
Finlayson, M., see Tsao, M.-S., et al. 75
Fischer, V. W., see Mattingly, G. E. 133
Funta, N., see Okeda, R., et al. 200

Gilstring, D., see Hultström, D., et al. 53
Grau Veciana, J. M., see Ferrer, I., et al. 167
Gross, M. L. P., see King, R. H. M., et al. 262
Guidetti, B., see Lauro, G. M., et al. 127
Guseo, A., see Szabó, M., et al. 115

Henschen, A., Olson, L.: Hexachlorophene-induced Degeneration of Adrenergic Nerves: Application of Quantitative Image Analysis to Falck-Hillarp Fluorescence Histochemistry . . . . . .

Hibi, N., see Shima, K., et al. 237
Higashino, F., see Okeda, R., et al. 200
Higgins, R. J., see Vandevelde, M., et al. 269
Higgins, R. J., Rings, D. M., Fenner, W. R., Stevenson, S.: Spontaneous Lower Motor Neuron Disease with Neurofibrillary Accumulation in Young Pigs. 288
Hirai, H., see Shima, K., et al. 237
Hori, A.: A Brain with Two Hypophyses in Median Cleft Face Syndrome 150
Hulström, D., Malmgren, L., Gilstring, D., Olsson, Y.: FITC-Dextrans as Tracers for Macromolecular Movements in the Nervous System. A Freeze-drying Method for Dextrans of Various Molecular Sizes Injected into Normal Animals . . 53

Igisu, H., see Takahashi, H., et al. 159
Ishida, Y., see Nakazato, Y. 229
Itagaki, T., see Kochi, N., et al. 119
Iwasaki, Y., see Aikawa, H., et al. 316
Iwase, S., see Shibayama, H., et al. 79

Kalimo, H., see Atillo, A., et al. 11
Karakatsanis, K., see Baloyannis, S. J., et al. 171
Karathanasis, J., see Baloyannis, S. J., et al. 171
Kayukawa, Y., see Shibayama, H., et al. 79
Kimula, Y., Utsuyama, M., Yoshimura, M., Tomonaga, M.: Element Analysis of Lewy and Adrenal Bodies in Parkinson's Disease by Electron Probe Microanalysis. . . 233
King, R. H. M., Craggs, R. I., Gross, M. L. P., Tompkins, C., Thomas, P. K.: Suppression of Experimental Allergic Neuritis by Cyclosporin-A 262
Kirk, J., see Allen, I. V., et al. 277
Kitamura, K., see Nishio, S., et al. 1
Kitoh, J., see Shibayama, H., et al. 79
Kobayashi, H., see Shibayama, H., et al. 79
Kochi, N., Tani, E., Morimura, T., Itagaki, T.: Immunhistochemical Study of Fibronectin in Human Glioma and Meningioma 119
Kornblith, P. L., see Chronwall, B. M., et al. 283
Kreutzberg, G. W., see Amano, S., et al. 145
Krinke, G.: Spinal Radiculoneuropathy in Aging Rats: Demyelination Secondary to Neuronal Dwindling? 63
Kristensen, F., see Vandevelde, M., et al. 269
Kroh, H., Cervós-Navarro, J.: Transformation of Oligodendroglia: A Para- or Preneoplastic Effect of Ethylnitrosourea on Mouse Brain. 309
Kudo, H., see Yoshimura, N. 295

Laitinen, L. A., see Lehtosalo, J., et al. 139
Lascano, E. F., Berria, M. I.: Immunoperoxidase Study on Astrocytic Reaction in Junin Virus Encephalomyelitis of Mice. 183
Lauro, G. M., Solheid, C., Medolago-Albani, L., Die Lorenzo, N., Guidetti, B.: Electron-microscopic Visualization of Binding of Antibodies from Sera of Glioma Patients on Cultured Glioma Cells 127
Lee, V. M.-Y., see Trojanowski, J. Q. 155
Lehtosalo, J., Tervo, T., Laitinen, L. A.: Bubbles and Hematologic Alterations in Intracranial Veins During Experimental Decompression Sickness 139

MacPherson, C. F. C., Bonato, L.: Immunocytochemical Localization of the Anti-Encephalitogenic Rat Spinal Cord Protein in Neurons, Oligodendrocytes and Schwann Cells. 191
McKeever, E., see Chronwall, B. M., et al. 283
Malmgren, L., see Hultström, D., et al. 53
Majtényi, C., see Szabó, M., et al. 115
Marton, L., see Stefansson, K., et al. 255

Marui, Y., see Shibayama, H., et al. 79
Matsuda, I., see Miike, T., et al. 48
Mattingly, G. E., Fischer, V. W.: Peripheral Neuropathy Following Prolonged Exposure to Streptozotocin-induced Diabetes in Rats: A Teased Nerve Fiber Study 133
Maynard, R. L., see Allen, I. V., et al. 277
Medolago-Albani, N., see Lauro, G. M., et al. 127
Miike, T., Tamari, H., Ohtani, Y., Nakamura, H., Matsuda, I., Miyoshino, S.: A Fluorescent Microscopy Study of Biopsied Muscles from Infantile Neuromuscular Disorders 48
Mizuhara, T., see Takauchi, S., et al. 225
Miyoshi, K., see Takauchi, S., et al. 225
Miyoshino, S., see Miike, T., et al. 48
Moggio, M., see Pellegrini, G., et al. 70
Molina, H., see Taratuto, A. L., et al. 304
Monges, J., see Taratuto, A. L., et al. 304
Morimura, T., see Kochi, N., et al. 119
Morimatsu, Y., see Nagashima, T., et al. 25
Müller, P., see Bernheimer, H., et al. 95

Nagashima, K., see Nagashima, T., et al. 25
Nagashima, T., Yamada, K., Uono, M., Tsubaki, T., Morimatsu, Y., Nagashima, K.: Chronic Recurrent Demyelinating Encephalomyelitis Associated with Hemophagocytic Lymphohistiocytosis 25
Nakamura, H., see Miike, T., et al. 48
Nakazato, Y., Ishida, Y.: Lamellar Bodies in Heterotopic Neurons of the Cerebellum 229
Nishio, S., Ohta, M., Abe, M., Kitamura, K.: Microvascular Abnormalities in Ethylnitrosourea (ENU)-induced Rat Brain Tumors: Structural Basis for Altered Blood-Brain Barrier Function 1

Ohno, M., see Yamano, T., et al. 41
Ohta, M., see Nishio, S., et al. 1
Ohta, S., see Yamano, T., et al. 41
Ohtani, Y., see Miike, T., et al. 48
Okeda, R., Song, S.-Y., Funta, N., Higashino, F.: An Experimental Study of the Pathogenesis of Grinker's Myelinopathy in Carbon Monoxide Intoxication. 200
Olson, L., see Henschen, A. 109
Olsson, Y., see Atillo, A., et al. 11
Olsson, Y., see Hultström, D., et al. 53

Paasivuo, R., Saksela, E.: Non-specific Binding of Mouse Immunoglobulins by Swollen-bodied Astrocytes – a Potential Source of Confusion in Human Brain Immunohistochemistry 103
Pellegrini, G., Moggio, M., Cheldi, A., Scarlato, G., Pistone, F. M., Picco, P.: Familial Megaconial Myopathy: A Real Nosologic Entity. Clinical and Histopathologic Studies in Two Siblings 70
Picco, P., see Pellegrini, G., et al. 70
Pistone, F. M., see Pellegrini, G., et al. 70

Rees, S., Cragg, B.: Is Silica Involved in Neuritio (Senile) Plaque Formation? 31
Reddington, M., see Amano, S., et al. 145
Reznik, M., Schoenen, J.: Lhermitte-Duclos Disease 88
Rings, D. M., see Higgins, R. J., et al. 288
Rizzuto, N., see Simonati, A., et al. 216
Roos, R. P., see Stefansson, K., et al. 255
Rovira, A., see Ferrer, I., et al. 167

Saksela, E., see Paasivuo, R. 103
Scarlato, G., see Pellegrini, G., et al. 70
Scott, R., see Allen, I. V., et al. 277
Schober, R., Yamamura, Y.: On the Fine Structure of Intrafusal and Extrafusal Nerve Segments of the Rat Muscle Spindle After Sciatic Nerve Transsection 246
Schoenen, J., see Reznik, M. 88
Shibayama, H., Kitoh, J., Marui, Y., Kobayashi, H., Iwase, S., Kayukawa, Y.: An Unusual Case of Pick's Disease . . . 79
Shima, K., Tashiro, K., Hibi, N., Tsukada, Y., Hirai, H.: Carbonic Anhydrase-III Immunohistochemical Localization in Human Skeletal Muscle 237
Shimada, M., see Yamano, T., et al. 41
Simonati, A., Rizzuto, N., Cavanagh, J. B.: The Effects of 2,5-Hexanedione on Axonal Regeneration After Nerve Crush in the Rat 216
Steck, A., see Vandevelde, M., et al. 269
Stefansson, K., Marton, L., Antel, J. P., Wollmann, R. L., Roos, R. P., Chejfec, G., Arnason, B. G. W.: Neuropathy Accompanying IgMλ Monoclonal Gammopathy 255
Stevenson, S., see Higgins, R. J., et al. 288
Söderfeldt, B., see Atillo, A., et al. 11
Solheid, C., see Lauro, G. M., et al. 127
Song, S.-Y., see Okeda, R., et al. 200
Summers, P. J., Ashmore, C. R.: Regeneration and Reinnervation of the Dystrophic Mouse Soleus Muscle. A Light- and Electron-microscopic Study 207
Suzuki, K., see Takahashi, H., et al. 159
Suzuki, K., see Aikawa, H., et al. 316
Szabó, M., Majtényi, C., Cuseo, A.: Contribution to the Background of Mollaret's Meningitis. 115
Takahashi, H., Igisu, H., Suzuki, K., Suzuki, K.: The Twitcher Mouse: An Ultrastructural Study on the Oligodendroglia . 159
Takauchi, S., Mizuhara, T., Miyoshi, K.: Unusual Paired Helical Filaments in Progressive Supranuclear Palsy . . . 225
Tamari, H., see Miike, T., et al. 48
Tani, E., see Kochi, N., et al. 119
Taratuto, A. L., Molina, H., Monges, J.: Choroid Plexus Tumors in Infancy and Childhood. Focal Ependymal Differentiation. An Immunoperoxidase Study 304
Tashiro, K., see Shima, K., et al. 237
Tervo, T., see Lehtosalo, J., et al. 139
Thomas, P. K., see King, R. H. M., et al. 262
Tomonaga, M., see Kimula, Y., et al. 233
Tompkins, C., see King, R. H. M., et al. 262
Trojanowski, J. Q., Lee, V. M.-Y.: Anti-Neurofilament Monoclonal Antibodies: Reagents for the Evaluation of Human Neoplasms 155
Tsao, M.-S., Becker, L., Finlayson, M.: Giant Cell Astrocytoma with Histiocytic Infiltrate. Definition of a Subgroup of Monstrocellular Brain Tumors 75
Tsubaki, T., see Nagashima, T., et al. 25
Tsukada, Y., see Shima, K., et al. 237

Uono, M., see Nagashima, T., et al. 25
Utsuyama, M., see Kimula, Y., et al. 233
Vandevelde, M., Bichsel, P., Cerruti-Sola, S., Steck, A., Kristensen, F., Higgins, R. J.: Glial Proteins in Canine Distemper Virus-induced Demyelination. A Sequential Immunocytochemical Study. 269

Wollmann, R. L., see Stefansson, K., et al. 255

Yamada, K., see Nagashima, T., et al. 25
Yamano, T., Shimada, M., Abe, Y., Ohta, S., Ohno, M.: Destruction of External Granular Layer and Subsequent Cerebellar Abnormalities 41
Yamamura, Y., see Schober, R. 246
Yoshimura, M., see Kumula, Y., et al. 233
Yoshimura, N., Kudo, H.: Mitochondrial Abnormalities in Menkes' Kinky Hair Disease (MKHD). Electronmicroscopic Study of the Brain from an Autopsy Case. . . . .

Indexed in Current Contents